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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/967,136	09/27/2001	Richard Joseph McConnell	ST00025USU	4922
34408 THE ECLIPSE	7590 07/17/2007 E GROUP	EXAMINER		
	DA BLVD., SUITE 300	BURD, KEVIN MICHAEL		
GRANADA H	ILLS, CA 91344	,	ART UNIT	PAPER NUMBER
		•	2611	
			MAIL DATE	DELIVERY MODE
	•		07/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

SK

			Application	No.	Applicant(s)				
Office Action Summary		09/967,136	·	MCCONNELL, RICHARD JOSEPH					
			Examiner		Art Unit				
		Kevin M. Bur		2611					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Issions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply is specified above, the maximum state the to reply within the set or extended period for reply very eply received by the Office later than three months afted and patent term adjustment. See 37 CFR 1.704(b).	AILING DA of 37 CFR 1.136 unication. tutory period will will, by statute, o	TE OF THIS 6(a). In no event, Il apply and will ex cause the applicat	COMMUNICATION however, may a reply be tim pire SIX (6) MONTHS from to to become ABANDONED	l. ely filed the mailing date of this o (35 U.S.C.§ 133).	•			
Status									
1)	Responsive to communication(s) filed	d on <i>06 Jul</i>	lv 2007						
· —	This action is FINAL . 2b)⊠ This action is non-final.								
· -	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)🖂	☑ Claim(s) <u>1-8</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-8</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)	Claim(s) are subject to restrict	tion and/or	election requ	uirement.		5			
Applicati	on Papers								
9)[The specification is objected to by the	Examiner.	•						
10)	The drawing(s) filed on is/are:	a)⊡ acce	pted or b)	objected to by the E	xaminer.	•			
	Applicant may not request that any object	tion to the d	lrawing(s) be l	neld in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
12)	Acknowledgment is made of a claim f	or foreian i	priority under	· 35 U.S.C. § 119(a)	-(d) or (f).				
_	☐ All b)☐ Some * c)☐ None of:	0.		• ()	· / · / /				
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.									
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application									
Paper No(s)/Mail Date 6)									

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1. This office action, in response to the request for continued examination (RCE) and amendment filed 7/6/2007, is a non-final office action.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/6/2007 has been entered.

Response to Amendment

3. The previous rejection of the claims is withdrawn in view of the amendment. A new rejection of the claims is stated below.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuo et al (US 6,370,208) in view of Underbrink (US 6,650,879).

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Regarding claims 1 and 3-5, Kuo discloses a correlator for CDMA applications. An incoming spread spectrum signal is received. The correlators categorize different combinations of code sequences and identify locations for which code elements for the code sequences are equivalent. The despreading operation is performed once for each equivalent combination (abstract). The ability to derive correlator outputs for multiple codes from these terms allows redundant computations to be eliminated (column 5, lines 1-5). Claim 1 of the reference discloses the method of demodulating the signal as well. The locations where the code elements are equivalent are determined and the redundant calculations are removed. Kuo does not disclose the receiver is a GPS receiver. Underbrink discloses the personal communication device with GPS receiver shown in figure 3. The GPS receiver comprises a GPS receiver as well as a CDMA transceiver. The GPS receiver of Underbrink allows numerous types of signals to be received. The provisions share a common clock source (column 2, lines 19-30). This minimizes the physical size of the on-board battery (column 1, lines 14-28) as well as the inherent advantageous of GPS. For these reasons, it would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Underbrink into the method of Kuo.

Regarding claim 2, Kuo discloses partial summation is used in the correlator (column 4, lines 58-63).

Regarding claims 6 and 7, Kuo discloses the redundant calculations are determined and removed from the calculations. The non-redundant calculations will be computed using the correlation process.

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Regarding claim 8, Kuo discloses the use of I/Q spreading in the RAKE receiver (column 2, lines 34-43).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Svensson et al (US 2002/0118730) discloses a method, system an apparatus that manipulates a correlation equation to eliminate redundant calculations in a receiver (abstract).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Kevin M. Burd 7/13/2007

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